Curriculum vitae

Prof. Dr. Viktoria Weber

Personal Data

Date of birth 03-02-1967, Krems, Austria

Contact University for Continuing Education Krems
Dr. Karl-Dorrek-Strasse 30
3500 Krems, Austria
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Current Positions, Employment, and Faculty Appointments

since Aug 2025 **Rector, University for Continuing Education Krems**

since 2015 **Full professor (§98) for Medical Biochemistry**
University for Continuing Education Krems, Austria

Education

1985 - 1990 **University of Natural Resources and Life Sciences**, Vienna, Austria

1990 **Graduation** (Dipl.-Ing.), with distinction

1990 - 1993 **Doctoral thesis**
Institute for Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria

1993 **Promotion** (Dr. nat. techn.), with distinction

2008 **Habilitation (venia docendi) for Biochemistry**
University of Natural Resources and Life Sciences, Vienna, Austria

Academic and Professional Career

1991 - 1994 **Researcher**
Institute for Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria (Glycobiology, with Prof. Leopold März)

Oct 1992 **Advanced Course on Glycoconjugates**, Federal European Biochemical Societies (FEBS), Lille, France

1994 - 1996 **Post-doctoral Training**
Institute for Tumor Biology and Cancer Research, Medical University Vienna, Austria (with Prof. Dr. Ulrike Wintersberger)

1996 - 1999 **Maternity leave**

since 1999 **Researcher,** Center for Biomedical Technology, Danube University Krems

1999 - 2008	**Group Leader Biochemistry**, Center for Biomedical Technology, Danube University Krems (with Prof. Dr. Dieter Falkenhagen)
2010 - 2025	**Vice-Rector for Research and Sustainable Development** University for Continuing Education Krems, Krems, Austria
2013 - 2019	**PI, Christian Doppler Laboratory** Innovative Therapy Approaches in Sepsis
2015 - 2025	**Chair, Center for Biomedical Technology** University for Continuing Education Krems, Krems, Austria
2018 - 2025	**Chair, Department for Biomedical Research** University for Continuing Education Krems, Krems, Austria

Research Interests

- Blood-biomaterial interface and blood compatibility
- Extracorporeal therapies
- Extracellular vesicles (characterization and functional studies in inflammation and coagulation)
- Pathophysiology of sepsis www.sepsisresearch.at
- Advanced pathogen detection in blood stream infection

Honors and Awards

- Member, Leibniz-Sozietät der Wissenschaften zu Berlin (since 2021)
- Science2Business Award (2017)
- Liese Prokop Award (2005)
- Young Investigator Award, European Society for Artificial Organs (2000)
- Anton Kurir Award, University of Natural Resources and Life Sciences Vienna (1994)

Board Memberships

Supervisory Board	Vienna Biocenter Core Facilities (VBCF)
	WasserCluster Lunz
Board	Complexity Science Hub www.csh.ac.at
	Scientific Advisory Board, Österreichische Forschungsgemeinschaft
Reviewer for funding organizations	Brno PhD Talent Call
	Research Executive Agency EU FP7 PEOPLE: International Incoming, Outgoing, and Intra-European Fellowships
	Romanian Council for Research and Development
	Polish-Norwegian Research Programme
	South Moravian Programme for Distinguished Researchers
	National Research Foundation Singapore
	Dutch Research Council

Netzwerke 2021 des Ministeriums für Kultur und Wissenschaft des Landes Nordrhein-Westfalen, Deutschland

Memberships in Professional Societies

ESAO European Society for Artificial Organs www.esao.org

ISEV International Society for Extracellular Vesicles (Member)

ÖGMBT Austrian Association of Molecular Life Sciences and Biotechnology (Board Member and Past President) www.oegmbt.at

DSG Deutsche Sepsis-Gesellschaft

ESS European Shock Society

ASEV Austrian Society for Extracellular Vesicles (Co-Founder), www.asev.at

Organisation of Conferences

- Scientific Advisory Board, Conference of the European Society for Artificial Organs (since 2007)
- Annual meeting of the ÖGMBT, Vienna, (2010)
- ASAIO-ESAO Winter School, Semmering (2011, 2012)
- ESAO Summer School on Biomaterials, Krems (2011)
- Symposium Extracellular Vesicles in Inflammation (2015, 2016, 2019, 2021)
- BionanoMed (2016, 2017)
- Annual Meeting of the ESAO (2016, 2017)
- ESAO Winter School (2018-2020)
- ASEV Annual Meeting, Krems (2021)
- 48th Annual ESAO Conference, Krems, Austria (2022)

Peer-Reviewed Articles

Mostageer M, Weber V, Eichhorn T (2026) Extracellular Vesicles in Hemostasis. *Clin Lab Med* https://doi.org/10.1016/j.cll.2026.02.013

Summer S, Wolf HM, Weber V, Fischer MB (2026) Mesenchymal stromal cells respond to SARS-CoV-2 peptides and exhibit altered T-cell regulatory capacity. *Cells,* 15: 592. https://doi.org/10.3390/cells15070592

Harm S, Schildböck C, Cont C, Weber V and Hartmann J (2025) Does CytoSorb interfere with immunosuppression? A pharmacokinetic and functional evaluation. *Pharmaceutics* 17(11): 1468. doi: 10.3390/pharmaceutics17111468.

Cont D, Schildböck C, Kolm C, Kirschner AKT, Farnleitner AH, Hartmann J, Weber V, and Harm S (2025) Influence of heparin-based anticoagulants on antibiotic therapy. *Front Immunol* 16: 1708169. doi: 10.3389/fimmu.2025.1708169.

Weidner L, Poupardin R, Zrzavy T, Laner-Plamberger S, Gratz G, Eichhorn T, Weber V, Rommer PS, Jungbauer C, and Strunk D (2025) T-cell repertoire correlates with cytokine imbalance in multiple sclerosis patients. *Front Immunol* 16: 1604452. doi: 10.3389/fimmu.2025.1604452.

Harm S, Zottl J, Schildboeck C, Bauer C, Cont D, Weber V (2025) Endpoint attachment of unfractionated vs low molecular weight heparin: a comparative study on blood compatibility. *Frontiers in Materials* 12: 1-15. doi: 10.3389/fmats.2025.1557939

Weber V, Eichhorn T (2024) Extracellular vesicles in blood products. *Transfus Apher Sci* 63(2): 103894. doi: 10.1016/j.transci.2024.103894.

Almeria C, Weiss R, Keck M, Weber V, Kasper C, Egger D (2024) Dynamic cultivation of human mesenchymal stem/stromal cells for the production of extracellular vesicles in a 3D bioreactor system. *Biotechnol Lett* 46(2):279-293. doi: 10.1007/s10529-024-03465-4.

Cont D, Harm S, Schildboeck C, Kolm C, Kirschner AKT, Farnleitner AH, Pilecky M, Zottl J, Hartmann J, Weber V. (2024) The neutralizing effect of heparin on blood-derived antimicrobial compounds: impact on antibacterial activity and inflammatory response. *Front Immunol* 15:1373255. doi: 10.3389/fimmu.2024.1373255.

Ebeyer-Masotta M, Eichhorn T, Fischer MB, and Weber V (2024) Impact of production methods and storage conditions on extracellular vesicles in packed red blood cells and platelet concentrates. *Transfus Apher Sci* doi: 10.1016/j.transci.2024.103891.

Harm S, Schildboeck C, Cont D, Weber V (2024) Heparin enables the reliable detection of endotoxin in human serum samples using the Limulus amebocyte lysate assay. *Sci Rep* 14:2410. doi: 10.1038/s41598-024-52735-8.

Wanner C, Vanholder R, Ortiz A, Davenport A, Canaud B, Blankestijn PJ, Masereeuw R, Kooman JP, Castellano G, Stamatialis D, Mitra S, Grooteman M, Weber V, Ebert T, Abdelrasoul A, Steppan S, Scheiwe R, Stenvinkel P (2024) Proceedings of a membrane update symposium: advancements, scientific insights, and future trends for dialysis membranes for enhanced clinical outcomes in end stage kidney disease patients. *Front Nephrol* 4:1455260. doi: 10.3389/fneph.2024.1455260.

Weiss R, and Mostageer M, Eichhorn T, Huber S, Egger D, Spittler A, Tripisciano C, Kasper C, Weber V (2024) The fluorochrome-to-protein ratio is crucial for the flow cytometric detection of tissue factor on extracellular vesicles. *Sci Rep* 14(1):6419. doi: 10.1038/s41598-024-56841-5.

Welsh J.A, et al. (2024) Minimal information for studies of extracellular vesicles (MISEV2023): from basic to advanced approaches. *J Extracell Vesicles* 13(2):e12404. doi: 10.1002/jev2.12404.

Eichhorn T, Huber S, Weiss R, Ebeyer-Masotta M, Lauková L, Emprechtinger R, Bellmann-Weiler R, Lorenz I, Martini J; Pirklbauer M, Orth-Hoeller D, Wuerzner R, Weber V (2023) Infection with SARS-CoV-2 is associated with elevated levels of IP-10, MCP-1, and IL-13 in sepsis patients. *Diagnostics* 13(6), 1069. doi: 10.3390/diagnostics13061069.

Eichhorn T, Weiss R, Huber S, Ebeyer-Masotta M, Mostageer M, Emprechtinger R, Knabl L. Sr, Knabl L, Wuerzner R, Weber V (2023) Expression of tissue factor and platelet/leukocyte markers on extracellular vesicles reflect platelet-leukocyte interaction in severe COVID-19. *Int J Mol Sci* 24(23):16886. doi: 10.3390/ijms242316886.

Almeria C, Kreß S, Weber V, Egger D. und Kasper C. (2022) Heterogeneity of mesenchymal stem cell-derived extracellular vesicles is highly impacted by the tissue/cell source and culture conditions. *Cell & Biosci* 12(1):51. doi: 10.1186/s13578-022-00786-7.

Ebeyer-Masotta M, Eichhorn T, Weiss R, Lauková L, Weber V. (2022) Activated platelets and platelet-derived extracellular vesicles mediate COVID-19-associated immunothrombosis. *Front Cell Dev Biol* 10:914891. doi: 10.3389/fcell.2022.914891.

Kny E, Reiner-Rozman C, Dostalek J, Hassel A.W, Nöhammer C, Pfaffeneder-Mantai F, Szunerits S, Weber V, Knoll W. and Kleber C. (2022) State of the art of chemosensors in a biomedical context. *Chemosensors* 10:199. doi: 10.3390/chemosensors10060199.

Semak V, Eichhorn T, Weiss R, Weber V. (2022) Polyzwitterionic coating of porous adsorbents for therapeutic apheresis. *J Funct Biomater* 13(4):216. doi: 10.3390/jfb13040216.

Steinberger S, Karuthedom George S,Lauková L, Weiss R, Tripisciano C, Marchetti-Deschmann M, Weber V, Allmaier G. and Weiss V.U. (2022) Targeting the structural integrity of extracellular vesicles via nano electrospray gas-phase electrophoretic mobility molecular analysis (nES GEMMA). *Membranes* 12(9):872. doi: 10.3390/membranes12090872.

Summer S, Rossmanith E, Pasztorek M, Fiedler C, Gröger M, Rauscher S, Weber V, and Fischer M.B. (2022) Mesenchymal stem cells support human vascular endothelial cells to form vascular sprouts in human platelet lysate-based matrices. *PlosOne* Dec 15;17(12):e0278895. doi: 10.1371/journal.pone.0278895.

Ebeyer-Masotta M, Eichhorn T, Weiss R, Semak V, Lauková L, Fischer MB, Weber V (2022) Heparin-functionalized adsorbents eliminate central effectors of immunothrombosis, including platelet factor 4, high mobility group box 1 protein, and histones. *Int J Mol Sci* 23:1823.

Pilecky M, Harm S, Bauer C, Zottl J, Emprechtinger R, Eichhorn T, Schildböck C, Ecker M, Willheim M, Weber V, Hartmann J (2022) Performance of Lateral Flow Assays for SARS-CoV-2 compared to RT-qPCR, *J Infect* 84(4):579-613.

Steinberger S, Karuthedom George S, Lauková L, Weiss R, Tripisciano C, Birner-Gruenberger R, Weber V, Allmaier G, Weiss VU (2021) A possible role of gas-phase electrophoretic mobility molecular analysis (nES GEMMA) in extracellular vesicle research. *Anal Bioanal Chem* 413(30):7341-7352.

Rock G, Weber V, Stegmayr B (2021) Therapeutic plasma exchange (TPE) as a plausible rescue therapy in severe vaccine-induced immune thrombotic thrombocytopenia. *Transfus Apher Sci* Aug;60(4):103174.

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Karuthedom George S, Lauková L, Weiss R, Semak V, Fendl B, Weiss VU, Steinberger S, Allmaier G, Tripisciano C and Weber V (2021) Comparative analysis of platelet-derived extracellular vesicles using flow cytometry and nanoparticle tracking analysis. *Int J Mol Sci* 22(8):3839.

Fendl B,Weiss R, Eichhorn T, Linsberger I, Afonyushkin T, Puhm F, Binder CJ, Fischer MB, Weber V (2021) Extracellular vesicles are associated with C-reactive protein in sepsis. *Sci Rep*11(1):6996.

Pasztorek M, Mrazova D, Rossmanith E, Walzer S, Rauscher S, Groeger M, Weber V, Rychtarikova-Stysova R, Stys D, and Fischer MB (2021) Stress fiber formation, mitochondrial morphology and membrane properties of human mesenchymal stem cells cultured in plastic adherence or in spherical aggregates. *J Regen Med* 10:1.

Huber S, Weinberger J, Pilecky M, Lorenz IH, Schildberger A, Weber V, Fuchs S, Posch W, Knabl L, Würzner R, Posch A (2021) A high leukocyte count and administration of hydrocortisone hamper PCR-based diagnostics for bloodstream infections. *Eur J Clin Microbiol Infect Dis* Jul;40(7):1441-1449.

Eichhorn T, Linsberger I, Lauková L, Tripisciano C, Fendl B, Weiss R, König F, Valicek G, Miestinger G, Hörmann C, Weber V (2021) Analysis of inflammatory mediator profiles in sepsis patients reveals that extracellular histones are strongly elevated in non-survivors *Mediators Inflamm* Mar 17;2021:8395048.

Lauková L, Weiss R, Semak V, Weber V (2021) Desialylation of platelet surface glycans enhances platelet adhesion to adsorbent polymers for lipoprotein apheresis. *Int J Artif Organs* Jun;44(6):378-384.

Tripisciano C, Weiss R, Karuthedom George S, Fischer MB, Weber V (2020) Extracellular vesicles derived from platelets, red blood cells, and monocyte-like cells differ regarding their ability to induce factor XII-dependent thrombin generation. *Front Cell Dev Biol* 8:298.

Wisgrill L, Lamm C, Hell L, Thaler J, Berger A, Weiss R, Weber V, Rinoesl H, Hiesmayr MJ, Spittler A, Bernardi M (2020) Influence of hemoadsorption during cardiopulmonary bypass on blood vesicle count and function. *J Transl Med* 18(1):202.

Weiss VU, Balantic K, Pittenauer E, Tripisciano C, Friedbacher G, Weber V, Marchetti-Deschmann M, Allmaier G (2020) Nano electrospray differential mobility analysis based sizeselection of liposomes and very-low density lipoprotein particles for offline hyphenation to MALDI mass spectrometry. *J Pharm Biomed Anal* 179:112998.

Pasztorek M, Rossmanith E, Mayr C, Hauser F, Jacak J, Ebner A, Weber V, Fischer MB (2019) Influence of platelet lysate on 2D and 3D amniotic mesenchymal stem cell cultures. *Front Bioeng Biotechnol* 7:338.

Almeria C, Weiss R, Roy M, Tripisciano C, Kasper C, Weber V, Egger D (2019) Hypoxia conditioned mesenchymal stem cell-derived extracellular vesicles induce increased vascular tube formation in vitro. *Front Bioeng Biotechnol* 7:292.

Fendl B,Weiss R, Eichhorn T, Spittler A, Fischer MB, Weber V (2019) Storage of human whole blood, but not isolated monocytes, preserves the distribution of monocyte subsets. *Biochem Biophys Res Commun* 517(4):709-714.

Pilecky M, Schildberger A, Knabl L, Orth-Höller D, Weber V (2019) Influence of antibiotic treatment on the detection of S. aureus in whole blood following pathogen enrichment. *BMC Microbiol* 19(1):180.

Pilecky M, Schildberger A, Orth-Höller D, Weber V (2019) Pathogen enrichment from human whole blood for diagnostic of bloodstream infection: prospects and limitations. *Diagn Microbiol Infect Dis* 94(1):7-14.

Fendl B, Eichhorn T, Weiss R, Tripisciano C, Spittler A, Fischer MB, Weber V (2018) Differential interaction of platelet-derived extracellular vesicles with circulating immune cells: roles of TAM receptors, CD11b, and phosphatidylserine. *Frontiers in Immunology* 9:2797.

Théry C, Witwer KW, Weber V, *et al*. (2018) Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles* 7:1, Article ID 1535750.

Egger D, Tripisciano C, Weber V, Kasper C (2018) Dynamic cultivation of mesenchymal stem cell aggregates. *Bioengineering (Basel)* 5(2).

Gubensek J, Strobl K, Harm S, Weiss R, Eichhorn T, Buturovic-Ponikvar J, Weber V, Hartmann J (2018) Influence of citrate concentration on the activation of blood cells in an in vitro dialysis setup. *PLoS One* 13(6):e0199204.

Weiss R, Gröger M, Rauscher S, Fendl B, Eichhorn T, Fischer MB, Spittler A, Weber V (2018) Differential interaction of platelet-derived extracellular vesicles with leukocyte subsets in human whole blood. *Sci Rep* 8(1):6598.

Mushahary D, Spittler A, Kasper C, Weber V, Charwart V (2018) Isolation, cultivation, and characterization of human mesenchymal stem cells. *Cytometry A* 93(1):19-31.

Eichhorn T, Hartmann J, Harm S, Linsberger I, König F, Valicek G, Miestinger G, Hörmann C, Weber V (2017) Clearance of selected plasma cytokines with continuous veno-venous hemodialysis using Ultraflux EMiC2 versus Ultraflux AV1000S. *Blood Purif* 44:260-266.

Tripisciano C, Weiss R, Eichhorn T, Spittler A, Heuser T, Fischer MB, Weber V (2017) Different potential of extracellular vesicles to support thrombin generation: Contributions of phosphatidylserine, tissue factor, and cellular origin. *Sci Rep* 7(1):6522.

Weiss R, Eichhorn T, Spittler A, Micusik M, Fischer MB, Weber V (2017) Release and cellular origin of extracellular vesicles during circulation of whole blood over adsorbent polymers for lipid apheresis. *J Biomed Mater Res B* 105(3):636-646.

Weber V, Groth T (2017) Materials, surfaces, and systems for extracorporeal therapies and beyond. *Int J Artif Organs* 40(1):1-3.

Eichhorn T, Fischer MB, Weber V (2017) Mechanisms of endothelial activation in sepsis and cell culture models to study the heterogeneous host response. *Int J Artif Organs* 40(1):9-14.

Semak V, Fischer MB, Weber V (2017) Biomimetic principles to develop blood compatible surfaces. *Int J Artif Organs* 40(1):22-30.

Strobl K, Harm S, Weber V, Hartmann J (2017) The role of ionized calcium and magnesium in regional citrate anticoagulation and its impact on inflammatory parameters. *Int J Artif Organs* 40(1):15-21.

Weiss R, Eichhorn T, Spittler A, Mičušíkc M, Fischer MB, Weber V (2017) Release and cellular origin of extracellular vesicles during circulation of whole blood over adsorbent polymers for lipid apheresis. *J Biomed Mater Res B* 105(3):636-646.

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Eichhorn T, Rauscher S, Hammer C, Gröger M, Fischer MB, Weber V (2016) Polystyrene-divinylbenzene based adsorbents reduce endothelial activation and monocyte adhesion under septic conditions in a pore-size dependent manner. *Inflammation* 39(5):1737-1746.

Fendl B, Weiss R, Fischer MB, Spittler A, Weber V (2016) Characterization of extracellular vesicles in whole blood: Influence of pre-analytical parameters and visualization of vesicle-cell interactions using imaging flow cytometry. *Biochem Biophys Res Commun* 478(1):168-173.

Buchacher T, Ohradanova-Repic A, Stockinger H, Fischer MB, Weber V (2015) M2 polarization favors survival of the intracellular pathogen *C. pneumonia*e. *PloS One* 10(11):e0143593

Buchacher T, Wiesinger-Mayr H, Vierlinger K, Rüger BM, Stanek G, Fischer MB, Weber V (2014) Human blood monocytes support persistence, but not replication of the intracellular pathogen *C. pneumoniae*. *BMC Immunology* 15:60.

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Weiss R, Spittler A, Schmitz G, Fischer MB, Weber V (2014) Thrombocyte adhesion and release of extracellular microvesicles correlate with surface morphology of adsorbent polymers for lipid apheresis *Biomacromolecules*, 15(7):2648-2655

La Spina R, Tripisciano C, Mecca T, Cunsolo F, Weber V, Mattiasson B (2014) Chemically modified poly(2-hydroxyethyl methacrylate) cryogel for the adsorption of heparin. *J Biomed Materials Research B* 102(6):1207-1216.

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Schildberger A, Rossmanith E, Eichhorn T, Strassl K, Weber V (2013) Monocytes, Peripheral Blood Mononuclear Cells, and THP-1 Cells Exhibit Different Cytokine Expression Patterns Following Stimulation with Lipopolysaccharide. *Mediators of Inflammation* 697972

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